

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) ACROSS THE WEST LEG OF THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND TREETOP DRIVE/PAUL MARTIN DRIVE IN HARFORD COUNTY, MARYLAND.  
US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.

**TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS**

US 40 (PULASKI HIGHWAY) AND TREETOP DRIVE/PAUL MARTIN DRIVE  
1. US 40 (PULASKI HIGHWAY) AND TREETOP DRIVE - WEST LEG  
STREETS AT 90 DEGREES  
WAIT: "WAIT TO CROSS PULASKI AT TREETOP, WAIT" \*  
WALK: RAPID TICK

**STREETS AT 90 DEGREES**

WAIT: "WAIT TO CROSS PULASKI AT PAUL MARTIN, WAIT" \*  
WALK: RAPID TICK

\* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'  
\*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC  
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	2 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS PULASKI HWY"

**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

- STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
- STANDARD NO. MD-104.06-11 (MOBILE SERVICE WORK)
- STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
2002	2 C.Y.	TEST PIT EXCAVATION
6002	11 S.F.	5 INCH CONCRETE SIDEWALK
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	2 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8040	25 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8042	2 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8044	50 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8057	270 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

**PROJECT CONTACTS**

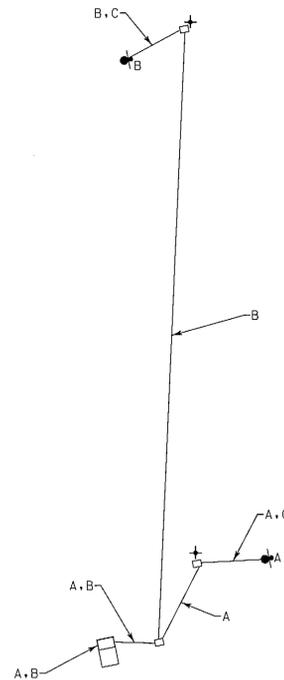
THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

- |   |  |
|---|--|
| MS. ERIN KUHN<br>ASSISTANT DISTRICT ENGINEER - TRAFFIC<br>PHONE: (410) 229-2381         | MR. ROBERT SNYDER<br>ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION<br>PHONE: (410) 787-7631 |
| MR. ANDRE FUTRELL<br>ASSISTANT DISTRICT ENGINEER - MAINTENANCE<br>PHONE: (410) 229-2361 | MR. ED RODENHIZER<br>CHIEF, SIGNAL OPERATIONS<br>PHONE: (410) 787-7650                     |
| MR. MIKE PASQUARIELLO<br>DISTRICT UTILITY ENGINEER<br>PHONE: (410) 229-2341             |  |

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6															
PHASE 1 + 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 + 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	DW	DW
4 + 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 8 ALT	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	FLDW	FLDW
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	FLDW	FLDW
8 ALT CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	←FLR	←FLR	FLY	FLY	+FLR	+FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK

**WIRING DIAGRAM**



**WIRING KEY**

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- + } 3/4 IN. X 10 FT. GROUND ROD

TOD NO: XY125-12  
SHA NO: HA400B55  
US 40: Woodbridge Way/Bus. Center  
Way/Gateway Dr./Treetop Dr./Paul Martin Drive

**TSP-6**

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 40 (PULASKI HIGHWAY) AND  
TREETOP DRIVE / PAUL MARTIN DRIVE  
(EDGEWOOD, MARYLAND)

**GENERAL INFORMATION SHEET**

SCALE	NONE	DATE	OCTOBER 2012	CONTRACT NO.	XY125185
DESIGNED BY	J. RASMUSSEN	COUNTY	HARFORD		
DRAWN BY	J. RASMUSSEN	LOGMILE	12004002.66		
CHECKED BY	N. LEARY	TIMS NO.	L647		
F.A.P. NO.		TOD NO.			
TS NO.	1312D	DRAWING	TSP-6	OF 6	SHEET NO. 6 OF 6

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231